

1116 SURVEY TASK LIST

ADOT SPEC SECTION	ADOT SPEC WORK ITEM	ACTIVITY DESCRIPTION	INSPECTOR	SURVEY CREW	FREQUENCY
201	Clearing & Grubbing	Check staking limits w/ right-angle prism and 100 foot chain.	X		Beginning of job.
202	Remove Structures & Obstructions	Measurements & records.	X		Prior to removals.
203 / 204	Earthwork	Review plans; check Contractor's survey staking:			
		check catch points		X	500 foot maximums.
		check 90 degree angles		X	500 foot maximums.
		check slope stakes		X	500 foot maximums.
		check alignment		X	500 foot maximums.
		Spot -check slopes w/hand level.	X		As needed, 500 ft. max.
		Check each progressive lift depth.	X		As needed, 500 ft. max.
205	Grading Roadway for Pavement	Check Contractor bluetop survey staking.		X	200 foot average.
		Stringline all bluetops.	X		All.
301 to 304	Subgrades, Subbases, and Bases	Subgrade only: check Contractor survey control bluetops.		X	200 foot average.
		Subbases & bases: check bluetops.		X	By request only.
		Stringline each lift of subgrades, subbases, and bases.		X	
			X		All.
305	Lean Concrete Base	Check horizontal & vertical alignment of wire staking.		X	200 foot maximum.
		Check hub & tack control with plumbline and stringline.	X		100 foot intervals.
401	Portland Cement Concrete Pavement	Check horizontal & vertical alignment of wire staking.		X	200 foot maximum.
		Check hub & tack control with plumbline and stringline.	X		100 foot intervals.
402	PCCP Repairs	Measure, locate, record work.	X		As required.
406 to 408	Asphaltic Concrete Classes	Check depths & offsets, stationing, and straightedging.	X		100 foot intervals.

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501 / 502	Pipes, Culverts, and Drains	Check Contractor's survey cut stakes: vertical and horizontal control. Use appropriate survey instruments.	X	X	Short runs - both ends. All large sizes, long runs; others by request only.
		Check pipe excavation and backfill using hand level, watch grade checker.	X		Check each advance.
503 to 505	Catch Basins, Standpipes, Manholes	Check position: alignment & elevations. Verify conformance with design.	X	X	Check only upon request. Field verify each location.
601	Concrete Structures: Bridges	Forms/soffit/falsework: verify edge of deck horizontal and vertical control. Check offsets, grades, screeds from control. Abutments & piers: check location & elevation of foundations prior to major pours. Bearing pads: check initial placement and control points, prepare as-builts.	X	X	Check every structure. Check all items. Check every structure. Verify layout at beginning of job only, and by request thereafter.
		Check bearing pads prior to concreting. Check approach and anchor slabs. Bid-Well: provide fill marks for Inspector to check bid-well initial setup.	X	X	Subsequent construction. By request only. Verify layout at beginning of job only, and by request thereafter.
		Continue progress checks: depths, joint locations, etc.	X		Subsequent construction.
601 (Cont'd)	Concrete Structures: Walls and Misc.	Check Contractor's initial staking, check footings placement & elevations, etc. Check locations & grades; check all wall forms and miscellaneous structures for plumbness and alignment.	X	X	Verify layout at beginning of job only, and by request thereafter. Check all items.
603 & 609	Pilings & Drilled Shaft Foundations	Check Contractor's survey control hubs, check elevations and horizontal placement. Check lines and grades.	X	X	Initially all, then random. Check all structures.

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914	Sound Barrier Walls	Check Contractor's initial staking, check footings placement & elevations, etc.		X	Verify layout at beginning of job only, and by request thereafter.
		Check locations, grades, and plumbness.	X		Check all structures.
925	Construction Surveying and Layout	Inspections and random checks as detailed above per instructions of the Engineer (per the Specification).		X	As directed.

GENERAL CONSTRUCTION-RELATED SURVEY ACTIVITIES

1. Preliminary Design Reviews: geometrics, alignment, terrain, obstructions, constructability.
2. Coordinate w/ADOT Photogrammetry on flights and mapping requests.
3. Maintain right-of-way records.
4. Review and check temporary construction easements.
5. Support review and approval of permit requests.